

of extracting the facsimile telephone number from the short message service message destination address.

14. The method as in claim 11 wherein the non-cellular network comprises a local or wide area network (LAN/WAN), and the step of converting further includes the step of converting the short message service message to an e-mail message.

15. The method as in claim 14 wherein the short message service message includes a field containing a LAN/WAN address for the destination address of the network message, and the step of identifying comprises the step of extracting the LAN/WAN address from the short message service message destination address.

16. A method for inter-network message communications, comprising the steps of:

receiving a network message originated on a non-cellular communications network, said message received at an interconnection point between the non-cellular communications network and a cellular communications network including a plurality of mobile stations, said message including a primary address for the network message comprising an address within the non-cellular communications network for the interconnection point and further including a secondary address for the network message comprising an address within the cellular communications network for a certain one of the mobile stations;

converting the received network message for transmission as a short message service message over the cellular communications network, the step of converting including the step of identifying a destination mobile station on the cellular network for delivery of the short message service message comprising the converted network message from the included secondary address; and

delivering the short message service message over the cellular communications network to the identified destination mobile station.

17. The method as in claim 16 wherein the non-cellular network comprises a conventional telephone network, and the step of converting further includes the step of converting the network message comprising a facsimile message to a short message service message.

18. The method as in claim 17 wherein the facsimile message includes a field containing a cellular telephone number for the secondary address, and the step of identifying comprises the step of extracting the cellular telephone number from the facsimile message.

19. The method as in claim 16 wherein the non-cellular network comprises a local or wide area network (LAN/WAN), and the step of converting further includes the step of converting the network message comprising an e-mail message to a short message service message.

20. The method as in claim 19 wherein the e-mail message includes a field containing a cellular telephone number for the secondary address, and the step of identifying comprises the step of extracting the cellular telephone number from the e-mail message.

21. A communications system, comprising;

a cellular communications network comprising a plurality of mobile stations engaging in cellular telephone communications as well as short message service message communications;

a non-cellular communications network for carrying network message communications wherein at least one network communication contains a primary address for

the network message comprising an address within the non-cellular communications network for a network interconnection point and further including a secondary address for the network message comprising an address within the cellular communications network for a certain one of the mobile stations; and

means connected between the cellular and non-cellular communications networks at the addressed network interconnection point for facilitating inter-network message communications, said means functioning to perform a conversion of network messages originated on the non-cellular communications network to short message service messages transmitted for delivery to mobile stations by the cellular communications network and to identify the certain one of the mobile stations in the cellular communications network from the included secondary address for delivery of the short message service message.

22. The communications system as in claim 21 wherein the non-cellular communications network comprises a conventional telephone network and the network messages comprise facsimile messages.

23. The communications system as in claim 22 wherein each facsimile message originated on the conventional telephone network includes a cellular telephone number for the secondary address, the means for facilitating further functioning after network message conversion to deliver the converted facsimile message as a short message service message over the cellular communications network to the cellular telephone number identified in the secondary address.

24. The communications system as in claim 21 wherein the non-cellular communications network comprises a local area network (LAN) or wide area network (WAN) and the network messages comprise e-mail messages.

25. The communications system as in claim 24 wherein each e-mail message originated on the LAN/WAN includes a cellular telephone number as the secondary address, the means for facilitating further operating after network message conversion to deliver the converted e-mail message as a short message service message communication transmitted over the cellular communications network to the cellular telephone number identified in the secondary address.

26. A message center for a cellular communications network, the cellular communications network supporting the transmission of short message service messages to and from mobile stations, the message center including an inter-network communications functionality facilitating the transmission of messages between the cellular communications network and a plurality of non-cellular communications networks connected thereto wherein the messages contain a destination address, the non-cellular communications networks supporting the transmission of network messages, said inter-network communications functionality operating to;

convert network messages originated on the non-cellular communications network to short message service messages for transmission over the cellular communications network and delivery to a certain mobile station identified by the destination address; and

convert short message service messages originated on the cellular communications network to network messages formatted for a certain one of the non-cellular communications networks identified in an included network designation for transmission over the non-cellular communications network and delivery to a certain entity identified by the destination address.